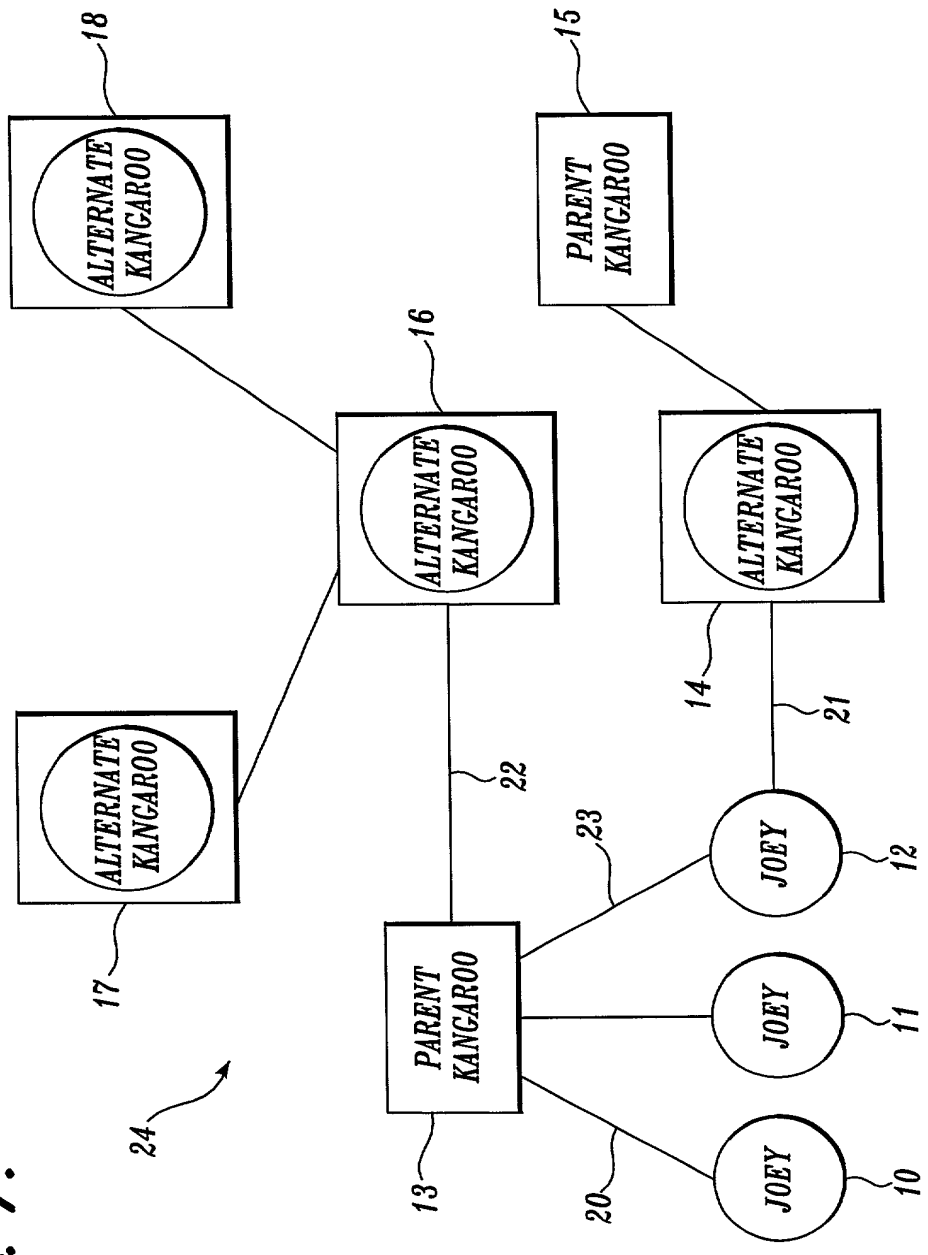

ALTERNATE KANGAROO
18
PARENT KANGAROO
15
ALTERNATE KANGAROO
16
ALTERNATE KANGAROO
17
ALTERNATE KANGAROO
14
22
21
23
JOEY
12
PARENT KANGAROO
JOEY
11
JOEY
10
13
20
24

Fig. 1.

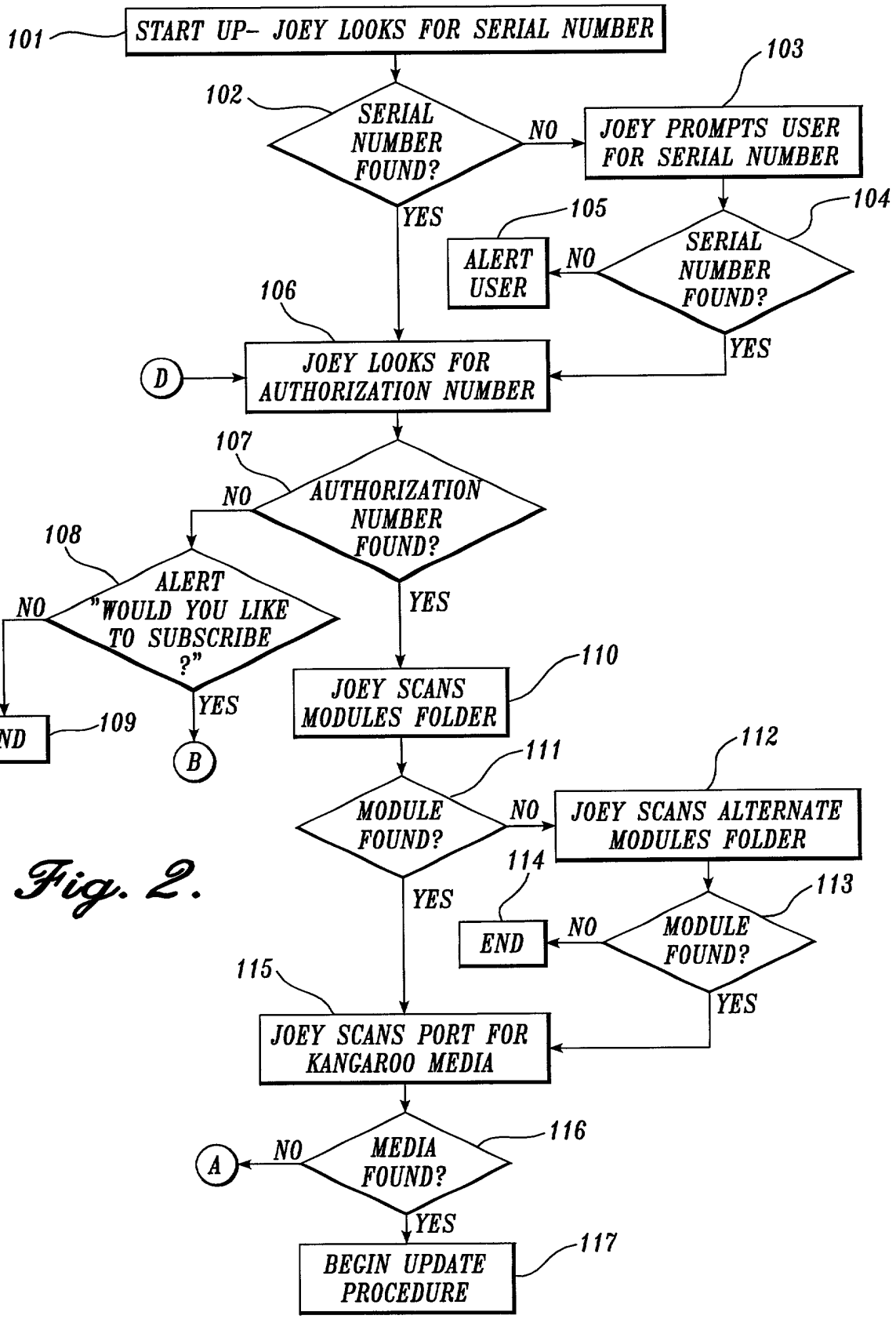
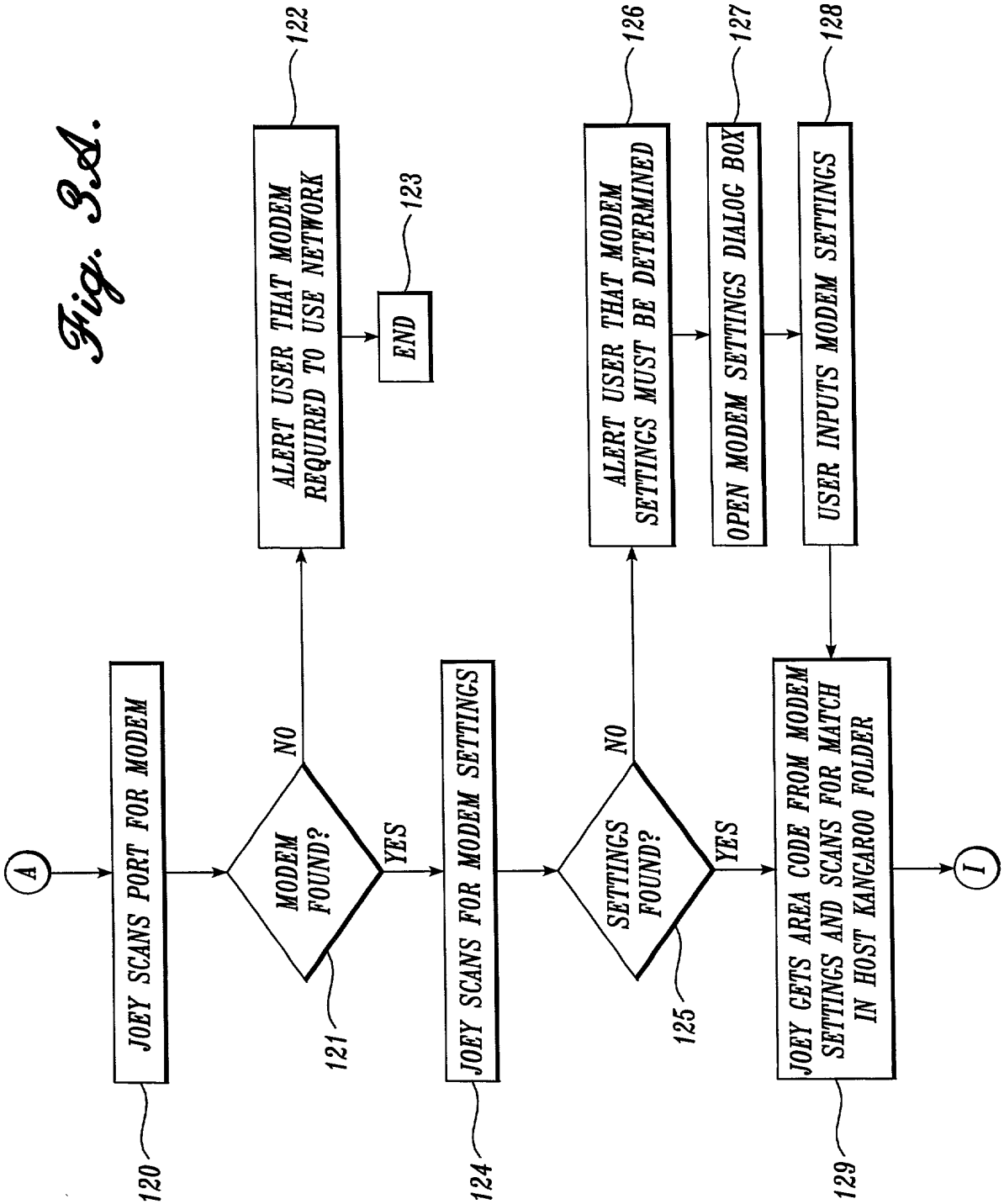

101
START UP- JOEY LOOKS FOR SERIAL NUMBER
102
SERIAL NUMBER FOUND?
NO
103
JOEY PROMPTS USER FOR SERIAL NUMBER
YES
105
ALERT USER
NO
104
SERIAL NUMBER FOUND?
YES
106
D
JOEY LOOKS FOR AUTHORIZATION NUMBER
107
NO
AUTHORIZATION NUMBER FOUND?
108
NO
ALERT "WOULD YOU LIKE TO SUBSCRIBE ?"
YES
END
109
B
YES
110
JOEY SCANS MODULES FOLDER
111
MODULE FOUND?
NO
112
JOEY SCANS ALTERNATE MODULES FOLDER
YES
114
END
NO
113
MODULE FOUND?
YES
115
JOEY SCANS PORT FOR KANGAROO MEDIA
A
NO
MEDIA FOUND?
116
YES
BEGIN UPDATE PROCEDURE
117

Fig. 2.

Fig. 3d.


A
JOEY SCANS PORT FOR MODEM
120
MODEM FOUND?
121
NO
ALERT USER THAT MODEM REQUIRED TO USE NETWORK
122
END
123
YES
JOEY SCANS FOR MODEM SETTINGS
124
SETTINGS FOUND?
125
NO
ALERT USER THAT MODEM SETTINGS MUST BE DETERMINED
126
OPEN MODEM SETTINGS DIALOG BOX
127
USER INPUTS MODEM SETTINGS
128
YES
JOEY GETS AREA CODE FROM MODEM SETTINGS AND SCANS FOR MATCH IN HOST KANGAROO FOLDER
129
I

SUBSTITUTE SHEET (RULE 26)

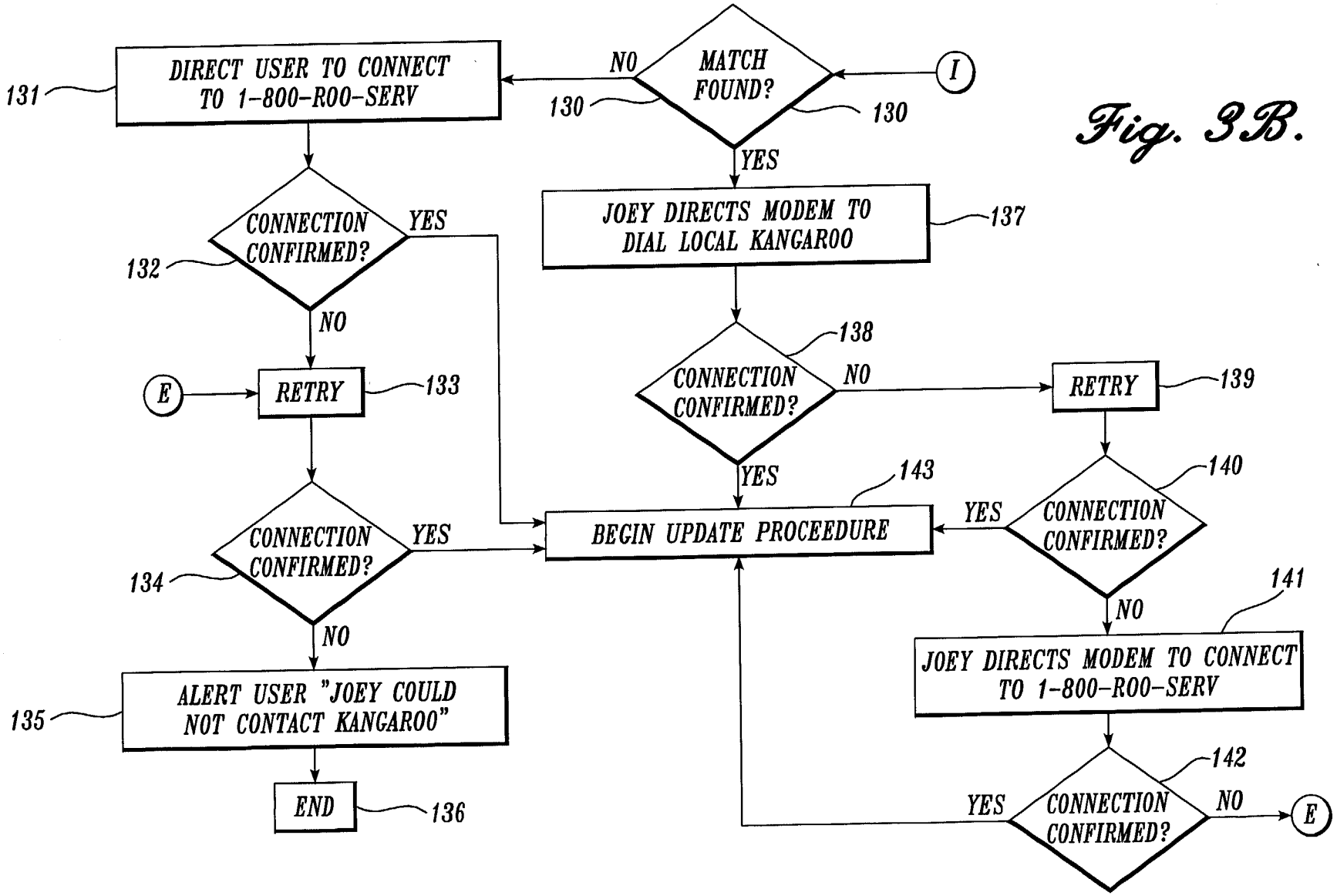


Fig. 3B.

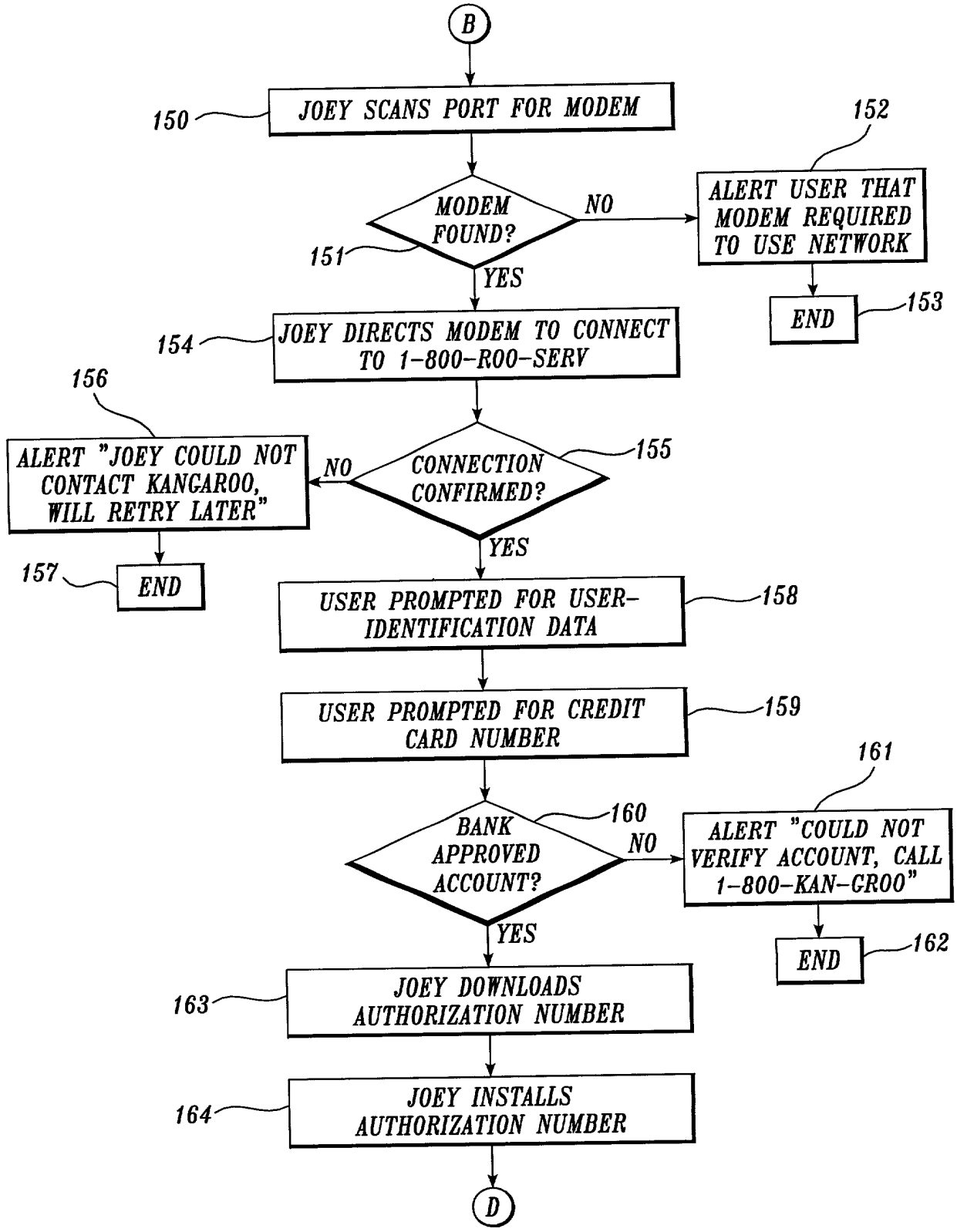

B
JOEY SCANS PORT FOR MODEM
150
MODEM FOUND?
151
NO
YES
152
ALERT USER THAT MODEM REQUIRED TO USE NETWORK
END
153
JOEY DIRECTS MODEM TO CONNECT TO 1-800-ROO-SERV
154
156
ALERT "JOEY COULD NOT CONTACT KANGAROO, WILL RETRY LATER"
NO
CONNECTION CONFIRMED?
155
YES
157
END
USER PROMPTED FOR USER-IDENTIFICATION DATA
158
USER PROMPTED FOR CREDIT CARD NUMBER
159
161
BANK APPROVED ACCOUNT?
160
NO
ALERT "COULD NOT VERIFY ACCOUNT, CALL 1-800-KAN-CROO"
YES
END
162
JOEY DOWNLOADS AUTHORIZATION NUMBER
163
JOEY INSTALLS AUTHORIZATION NUMBER
164
D

Fig. 4.

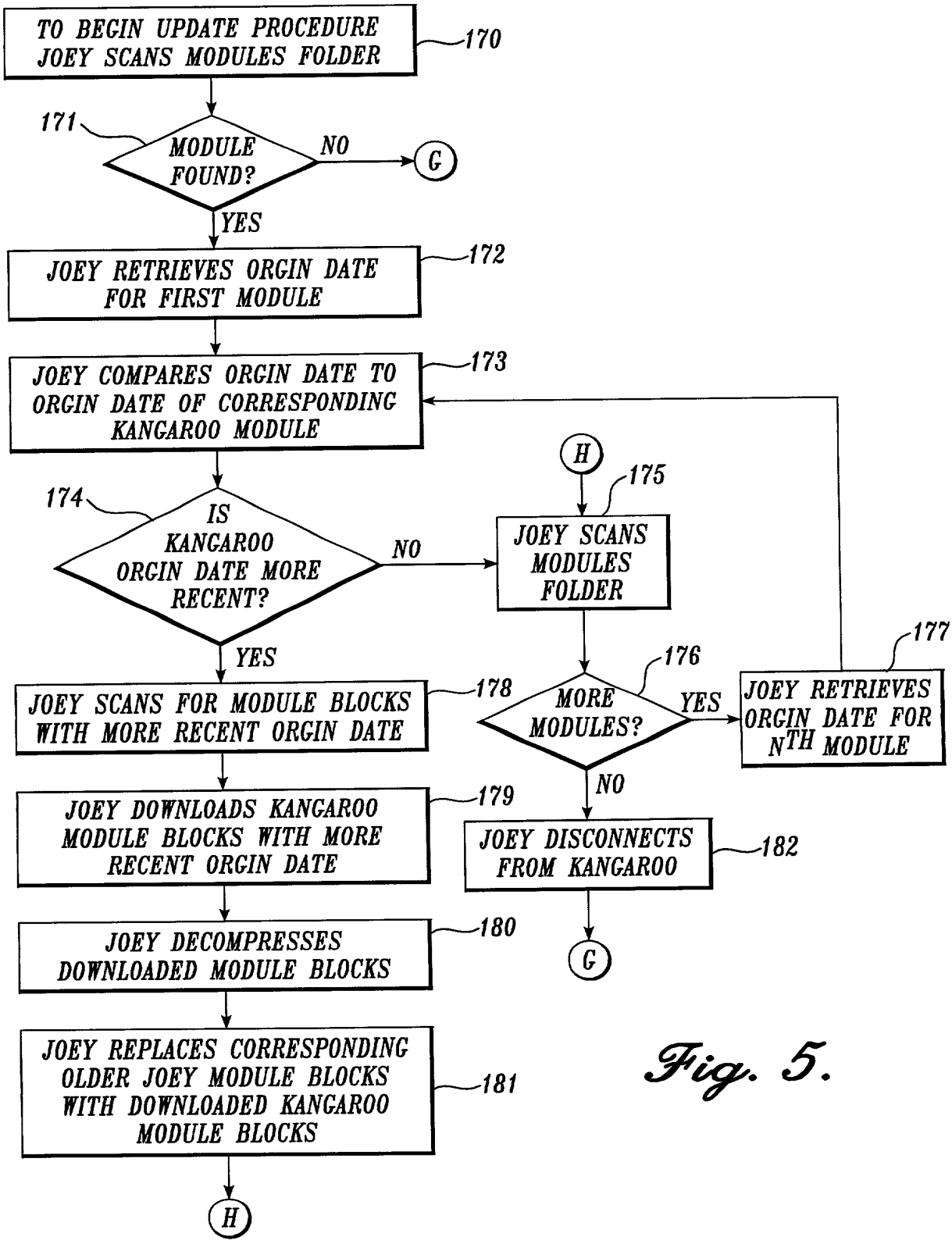
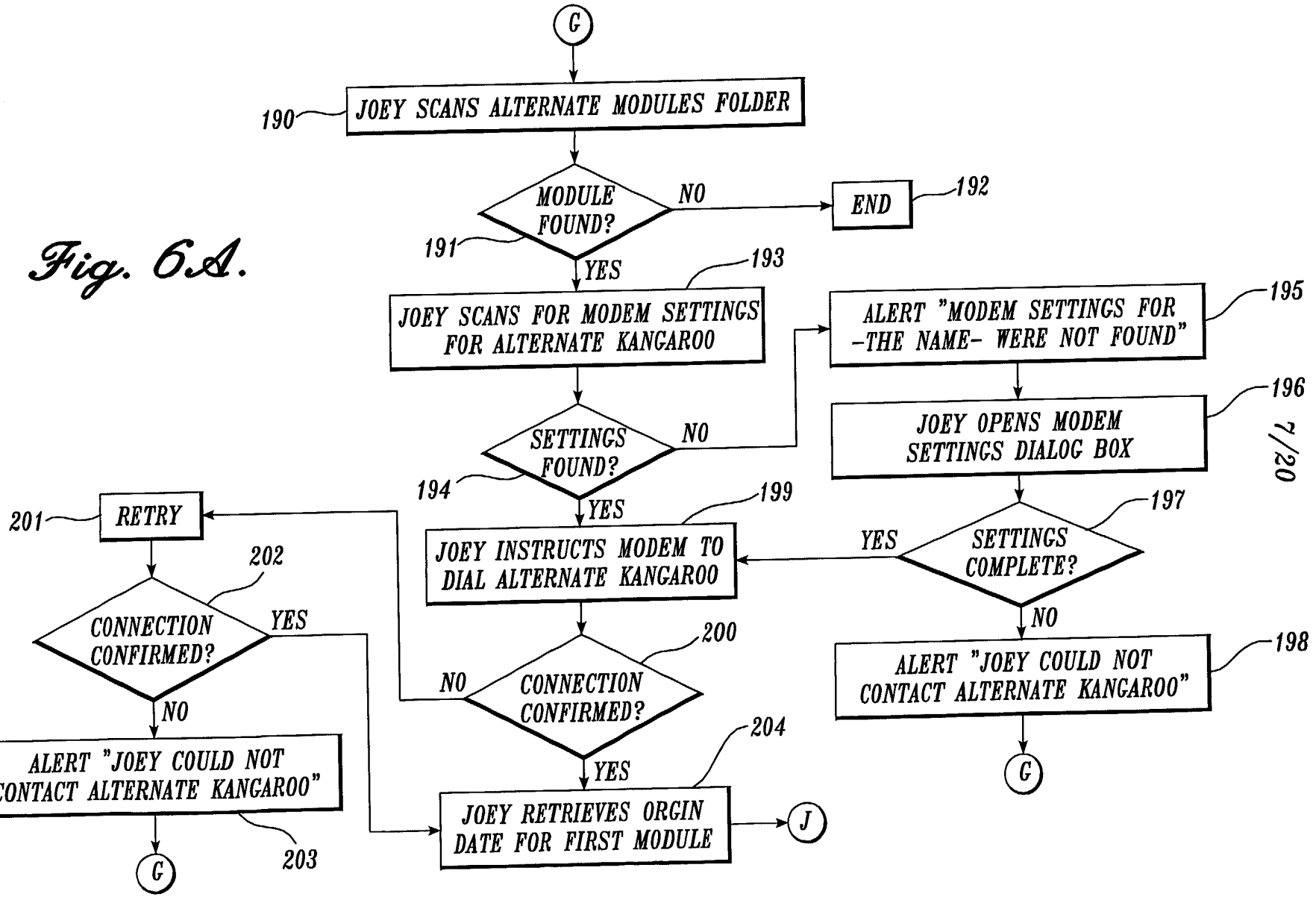

TO BEGIN UPDATE PROCEDURE JOEY SCANS MODULES FOLDER
170
171
MODULE FOUND?
NO
G
YES
JOEY RETRIEVES ORGIN DATE FOR FIRST MODULE
172
JOEY COMPARES ORGIN DATE TO ORGIN DATE OF CORRESPONDING KANGAROO MODULE
173
H
175
174
IS KANGAROO ORGIN DATE MORE RECENT?
NO
JOEY SCANS MODULES FOLDER
YES
176
177
JOEY SCANS FOR MODULE BLOCKS WITH MORE RECENT ORGIN DATE
178
MORE MODULES?
YES
JOEY RETRIEVES ORGIN DATE FOR N^TH MODULE
NO
JOEY DOWNLOADS KANGAROO MODULE BLOCKS WITH MORE RECENT ORGIN DATE
179
JOEY DISCONNECTS FROM KANGAROO
182
JOEY DECOMPRESSES DOWNLOADED MODULE BLOCKS
180
G
JOEY REPLACES CORRESPONDING OLDER JOEY MODULE BLOCKS WITH DOWNLOADED KANGAROO MODULE BLOCKS
181
H

Fig. 5.

Fig. 6A.


G
190
JOEY SCANS ALTERNATE MODULES FOLDER
MODULE FOUND?
191
NO
END
192
YES
193
JOEY SCANS FOR MODEM SETTINGS FOR ALTERNATE KANGAROO
SETTINGS FOUND?
194
NO
ALERT "MODEM SETTINGS FOR -THE NAME- WERE NOT FOUND"
195
JOEY OPENS MODEM SETTINGS DIALOG BOX
196
YES
199
JOEY INSTRUCTS MODEM TO DIAL ALTERNATE KANGAROO
SETTINGS COMPLETE?
197
YES
NO
ALERT "JOEY COULD NOT CONTACT ALTERNATE KANGAROO"
198
G
201
RETRY
202
CONNECTION CONFIRMED?
YES
NO
ALERT "JOEY COULD NOT CONTACT ALTERNATE KANGAROO"
203
G
NO
CONNECTION CONFIRMED?
200
YES
204
JOEY RETRIEVES ORGIN DATE FOR FIRST MODULE
J

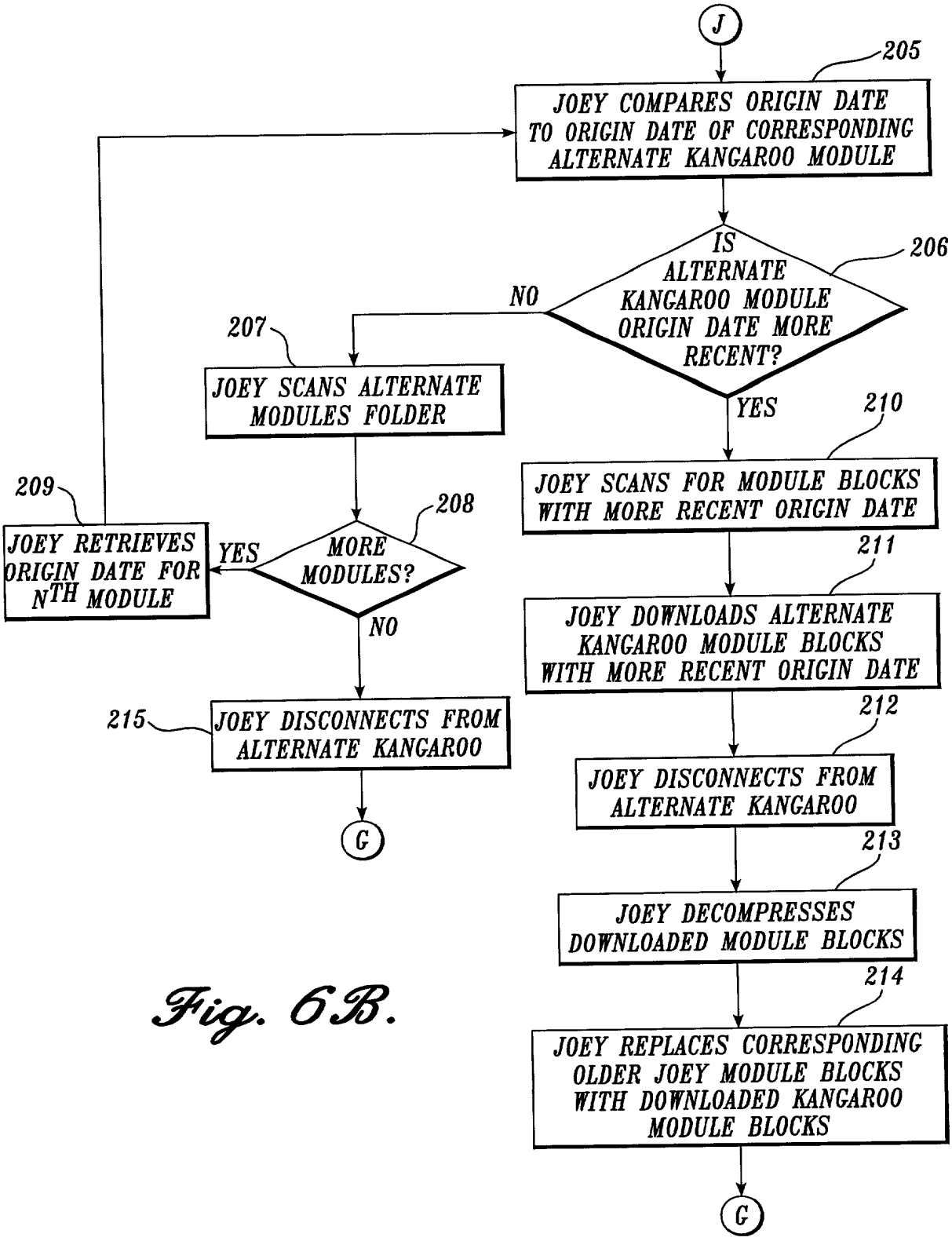

J
205
JOEY COMPARES ORIGIN DATE TO ORIGIN DATE OF CORRESPONDING ALTERNATE KANGAROO MODULE
IS ALTERNATE KANGAROO MODULE ORIGIN DATE MORE RECENT?
206
NO
YES
207
JOEY SCANS ALTERNATE MODULES FOLDER
210
JOEY SCANS FOR MODULE BLOCKS WITH MORE RECENT ORIGIN DATE
209
JOEY RETRIEVES ORIGIN DATE FOR N^TH MODULE
208
MORE MODULES?
YES
NO
211
JOEY DOWNLOADS ALTERNATE KANGAROO MODULE BLOCKS WITH MORE RECENT ORIGIN DATE
212
JOEY DISCONNECTS FROM ALTERNATE KANGAROO
215
JOEY DISCONNECTS FROM ALTERNATE KANGAROO
213
JOEY DECOMPRESSES DOWNLOADED MODULE BLOCKS
214
JOEY REPLACES CORRESPONDING OLDER JOEY MODULE BLOCKS WITH DOWNLOADED KANGAROO MODULE BLOCKS
G
G

Fig. 6B.

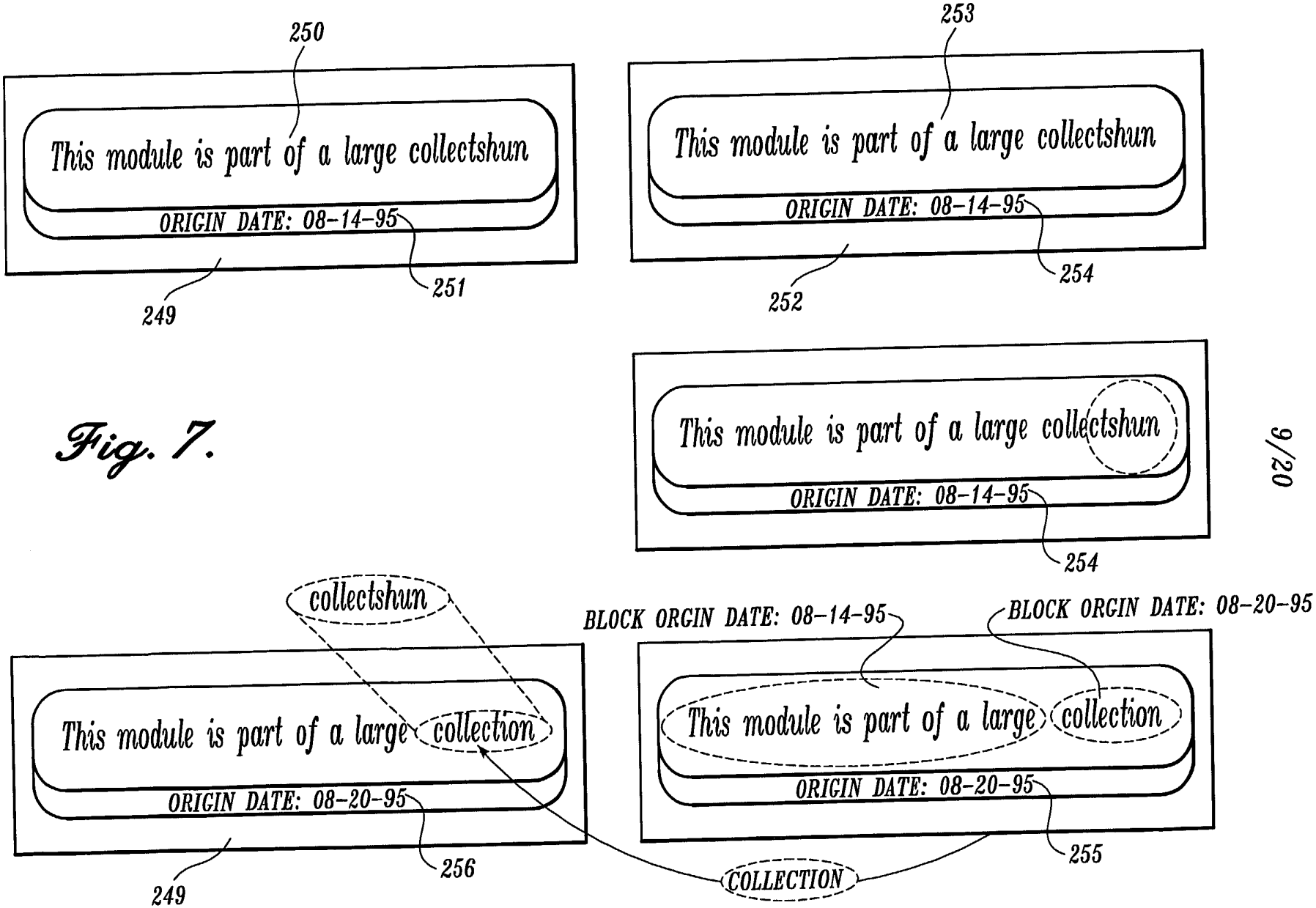

250
This module is part of a large collectshun
ORIGIN DATE: 08-14-95
249
251
253
This module is part of a large collectshun
ORIGIN DATE: 08-14-95
252
254
This module is part of a large collectshun
ORIGIN DATE: 08-14-95
254
collectshun
BLOCK ORGIN DATE: 08-14-95
BLOCK ORGIN DATE: 08-20-95
This module is part of a large collection
ORIGIN DATE: 08-20-95
249
256
This module is part of a large collection
ORIGIN DATE: 08-20-95
255
COLLECTION

Fig. 7.

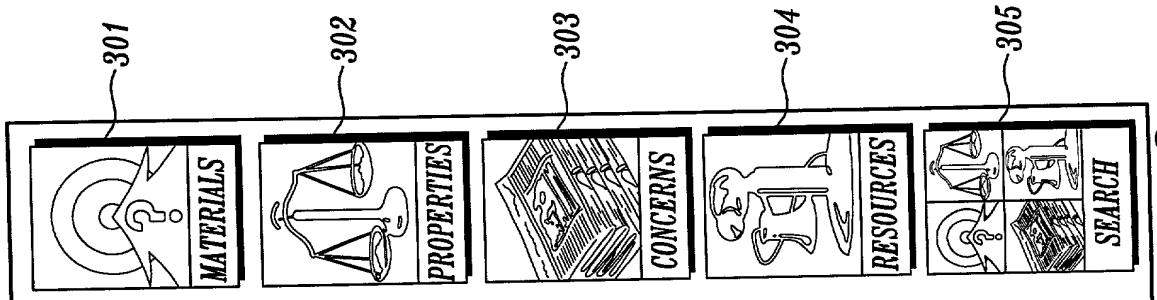

301
MATERIALS
302
PROPERTIES
303
CONCERNS
304
RESOURCES
305
SEARCH

Fig. 8.

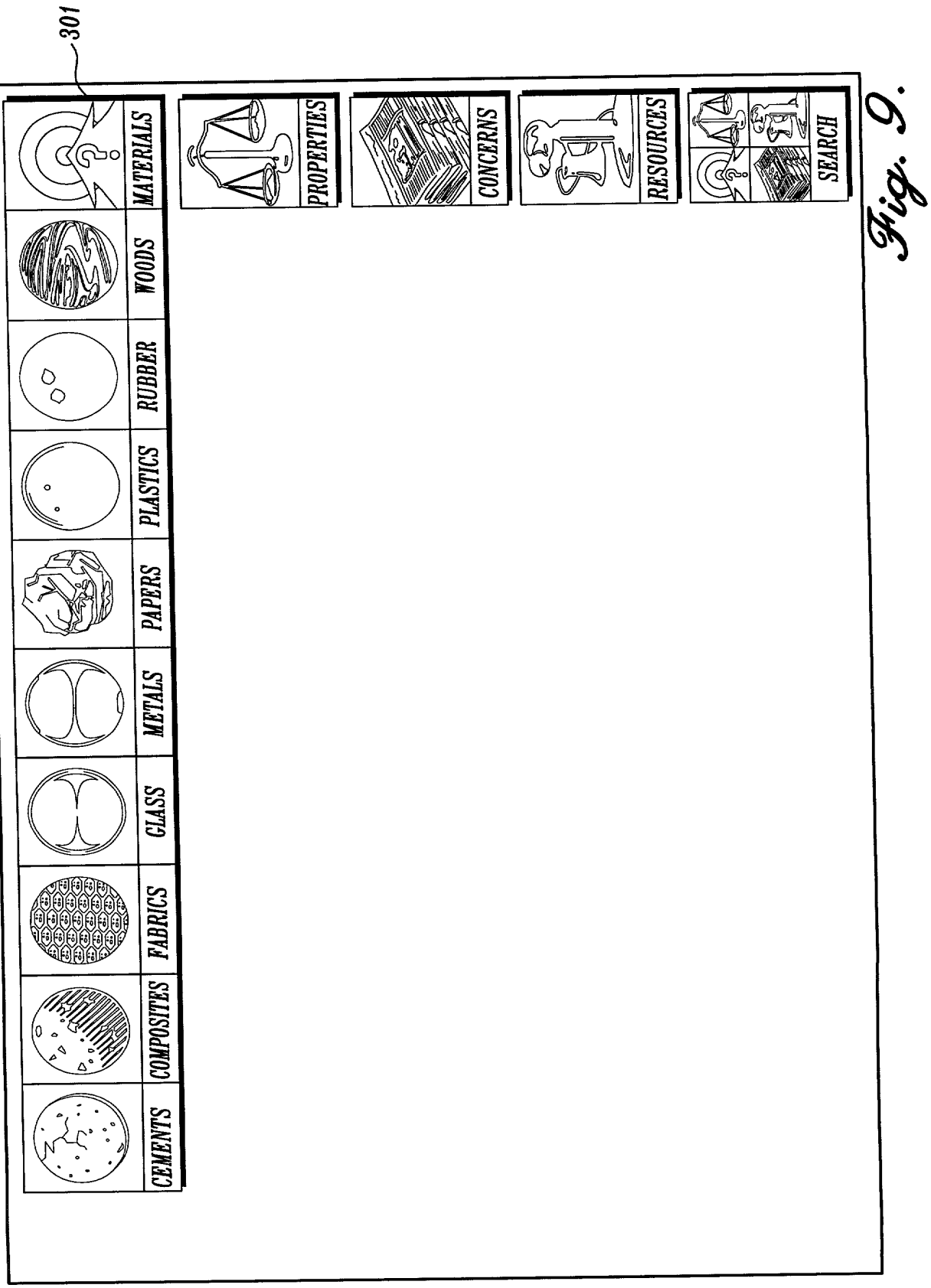

301
MATERIALS
WOODS
RUBBER
PLASTICS
PAPERS
METALS
GLASS
FABRICS
COMPOSITES
CEMENTS
PROPERTIES
CONCERNS
RESOURCES
SEARCH

Fig. 9.

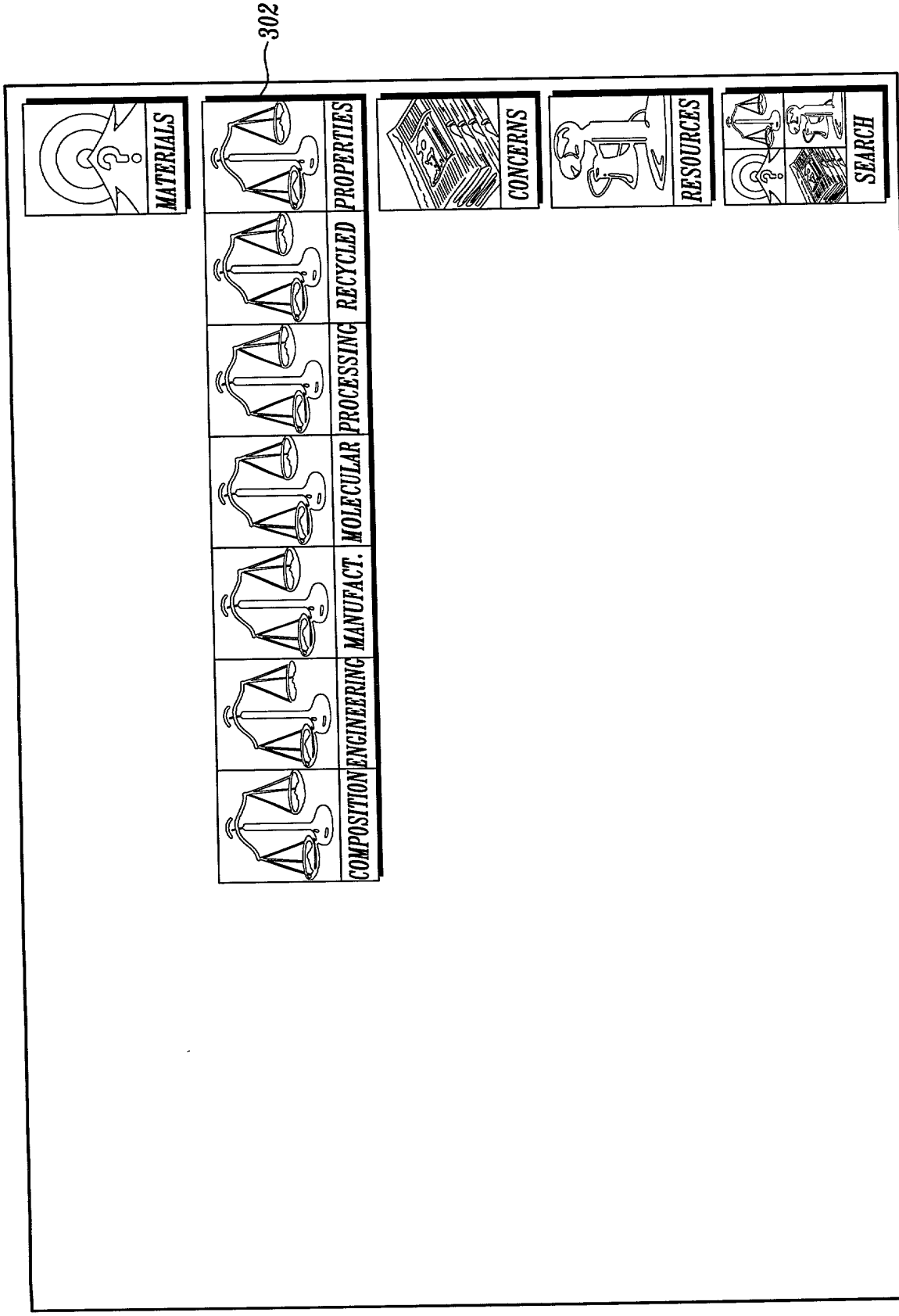

302
MATERIALS
PROPERTIES
RECYCLED
PROCESSING
MOLECULAR
MANUFACT.
ENGINEERING
COMPOSITION
CONCERNS
RESOURCES
SEARCH

Fig. 10.

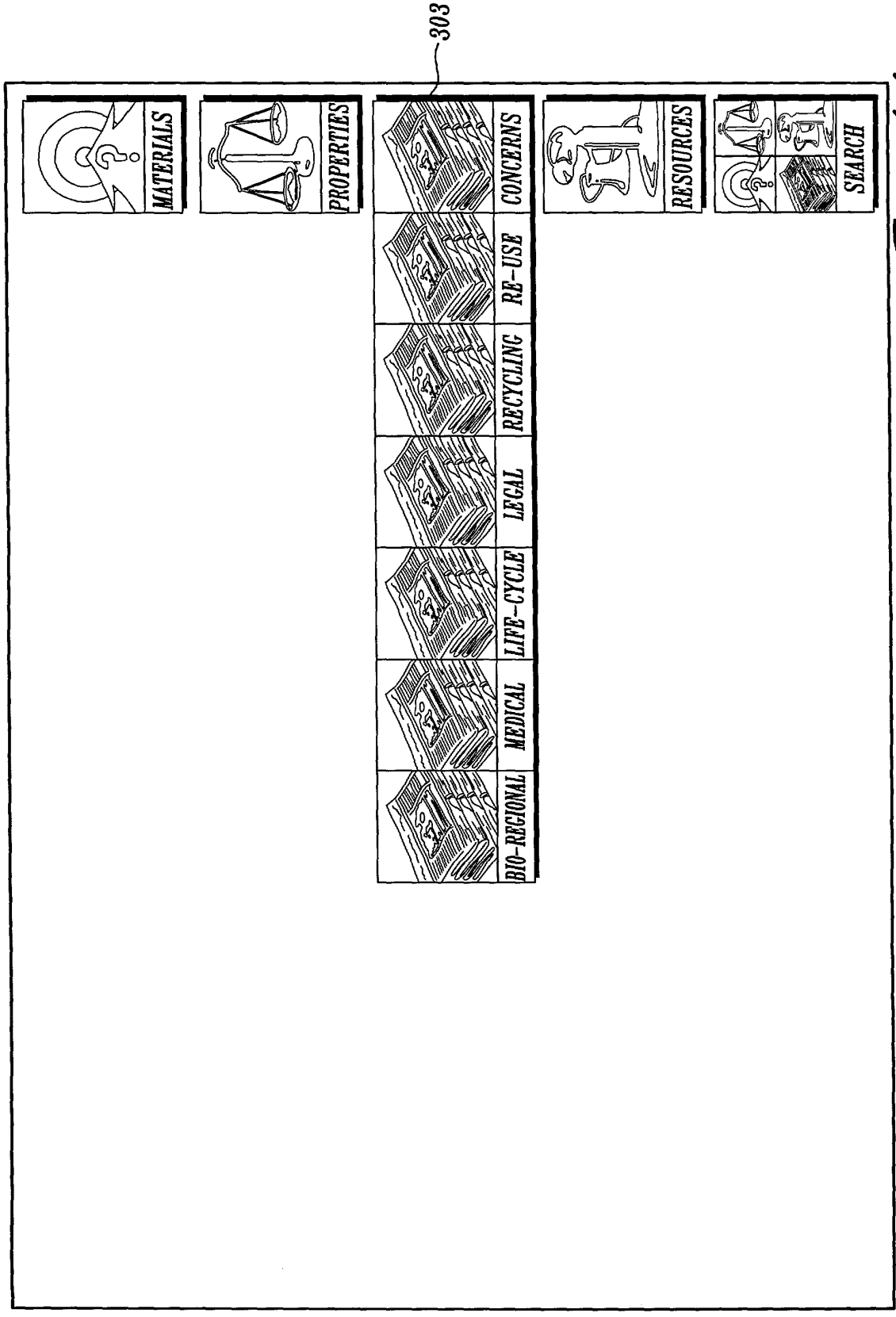

303
MATERIALS
PROPERTIES
CONCERNS
RE-USE
RECYCLING
LEGAL
LIFE-CYCLE
MEDICAL
BIO-REGIONAL
RESOURCES
SEARCH

Fig. 11.

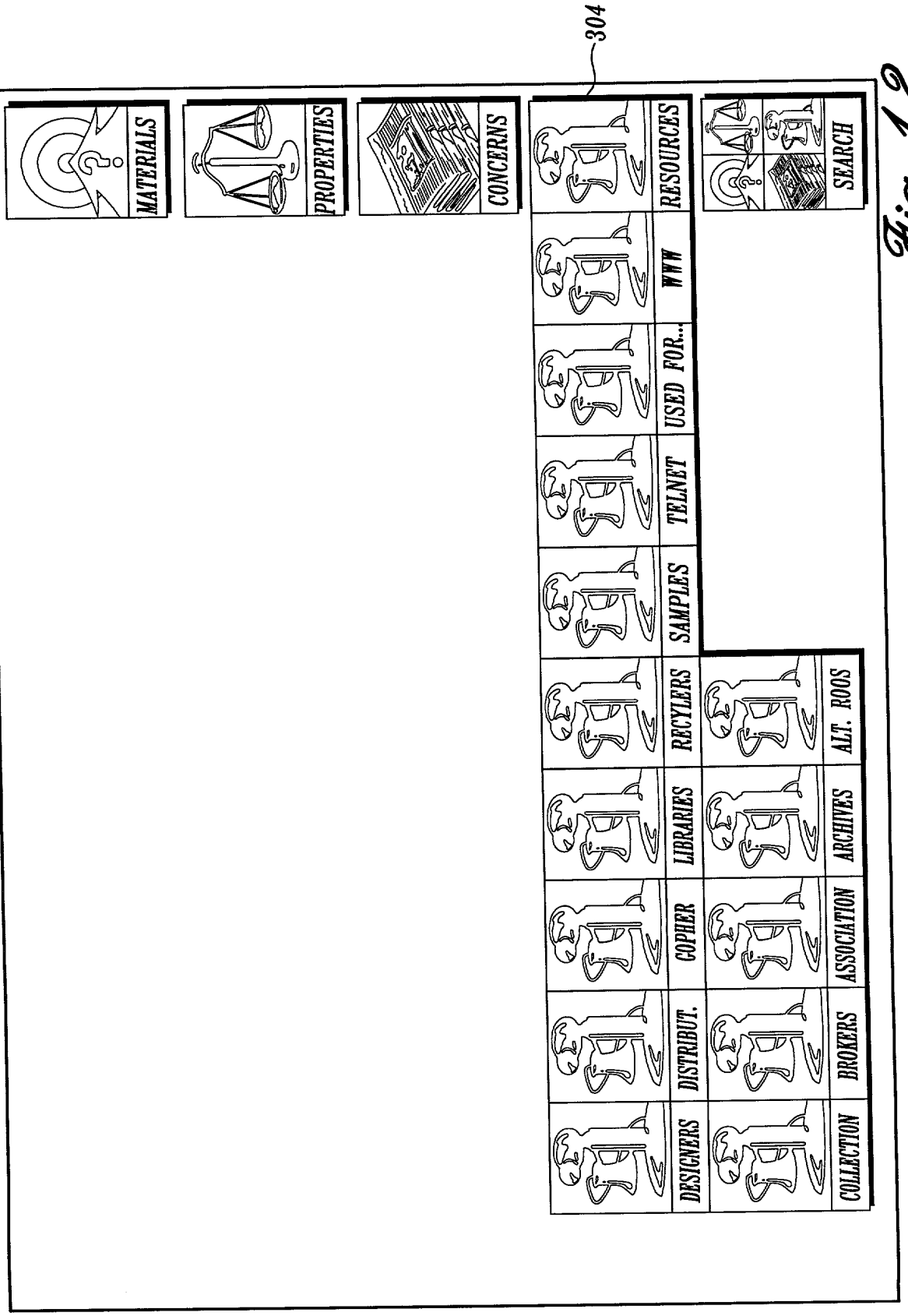

304
MATERIALS
PROPERTIES
CONCERNS
RESOURCES
WWW
USED FOR..
TELNET
SAMPLES
RECYLERS
LIBRARIES
COPIER
DISTRIBUT.
DESIGNERS
ALT. ROOS
ARCHIVES
ASSOCIATION
BROKERS
COLLECTION
SEARCH

Fig. 12.

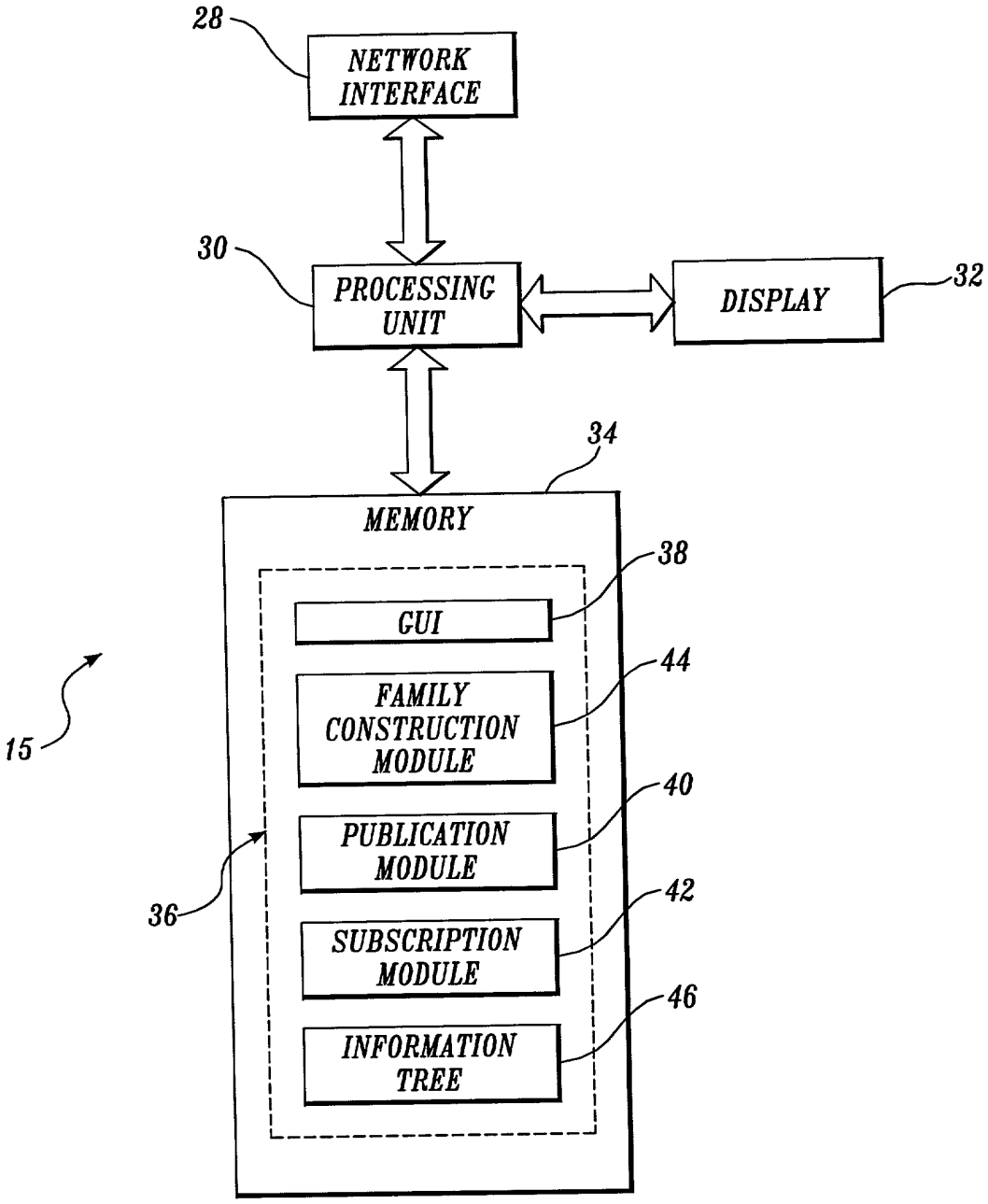

28
NETWORK INTERFACE
30
PROCESSING UNIT
DISPLAY
32
34
MEMORY
38
GUI
44
FAMILY CONSTRUCTION MODULE
40
PUBLICATION MODULE
42
SUBSCRIPTION MODULE
46
INFORMATION TREE
36
15

Fig. 13.

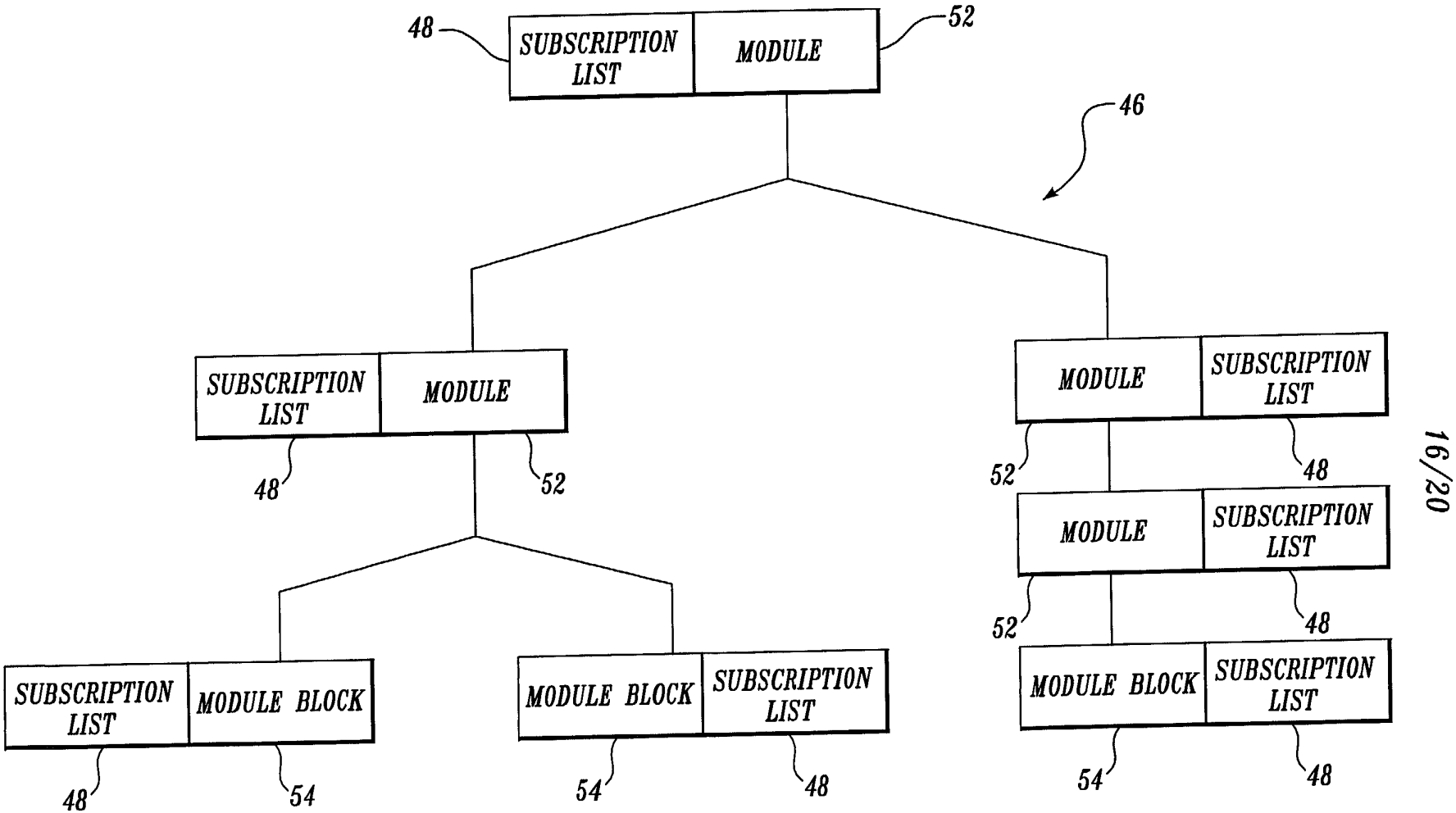

48
SUBSCRIPTION LIST
MODULE
52
46
SUBSCRIPTION LIST
MODULE
48
52
MODULE
SUBSCRIPTION LIST
52
48
MODULE
SUBSCRIPTION LIST
52
48
SUBSCRIPTION LIST
MODULE BLOCK
48
54
MODULE BLOCK
SUBSCRIPTION LIST
54
48
MODULE BLOCK
SUBSCRIPTION LIST
54
48

Fig. 14.

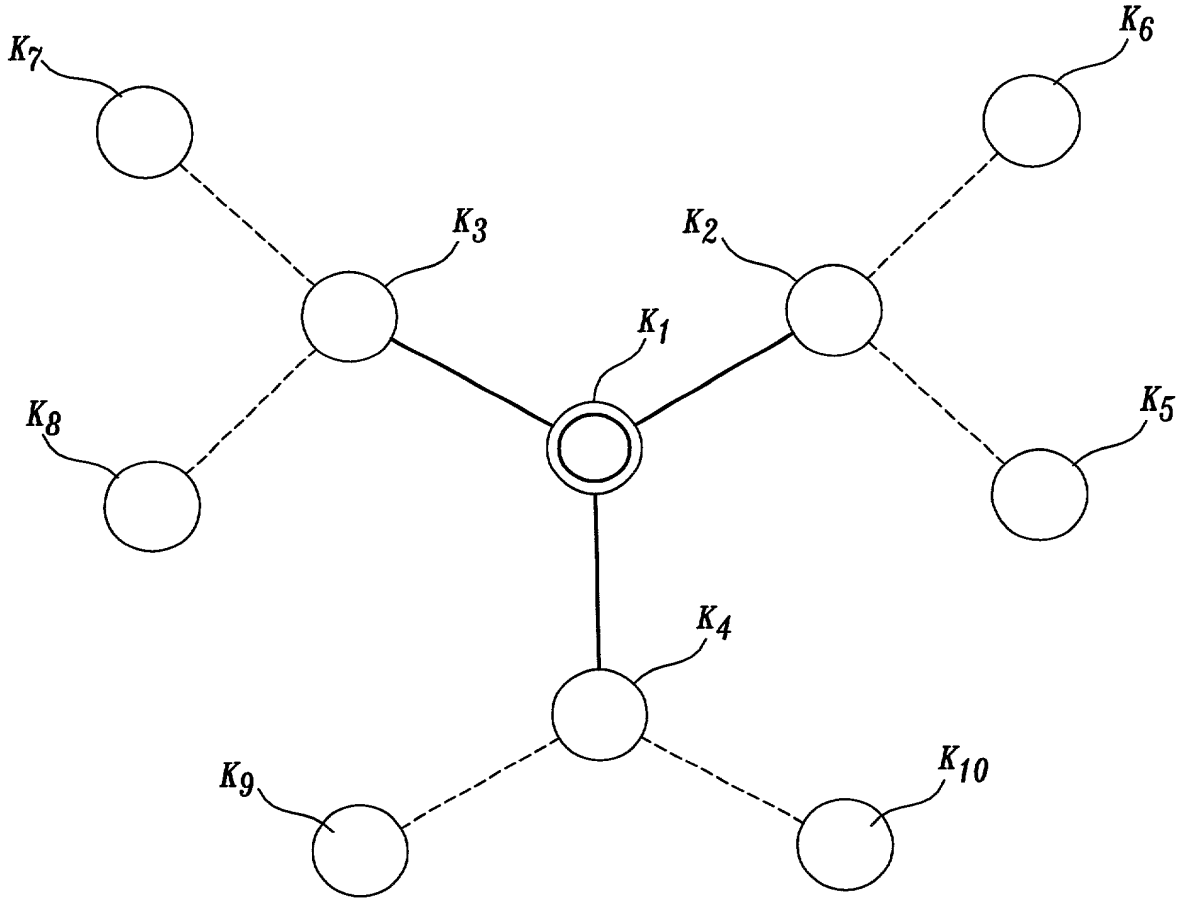


Fig. 15.

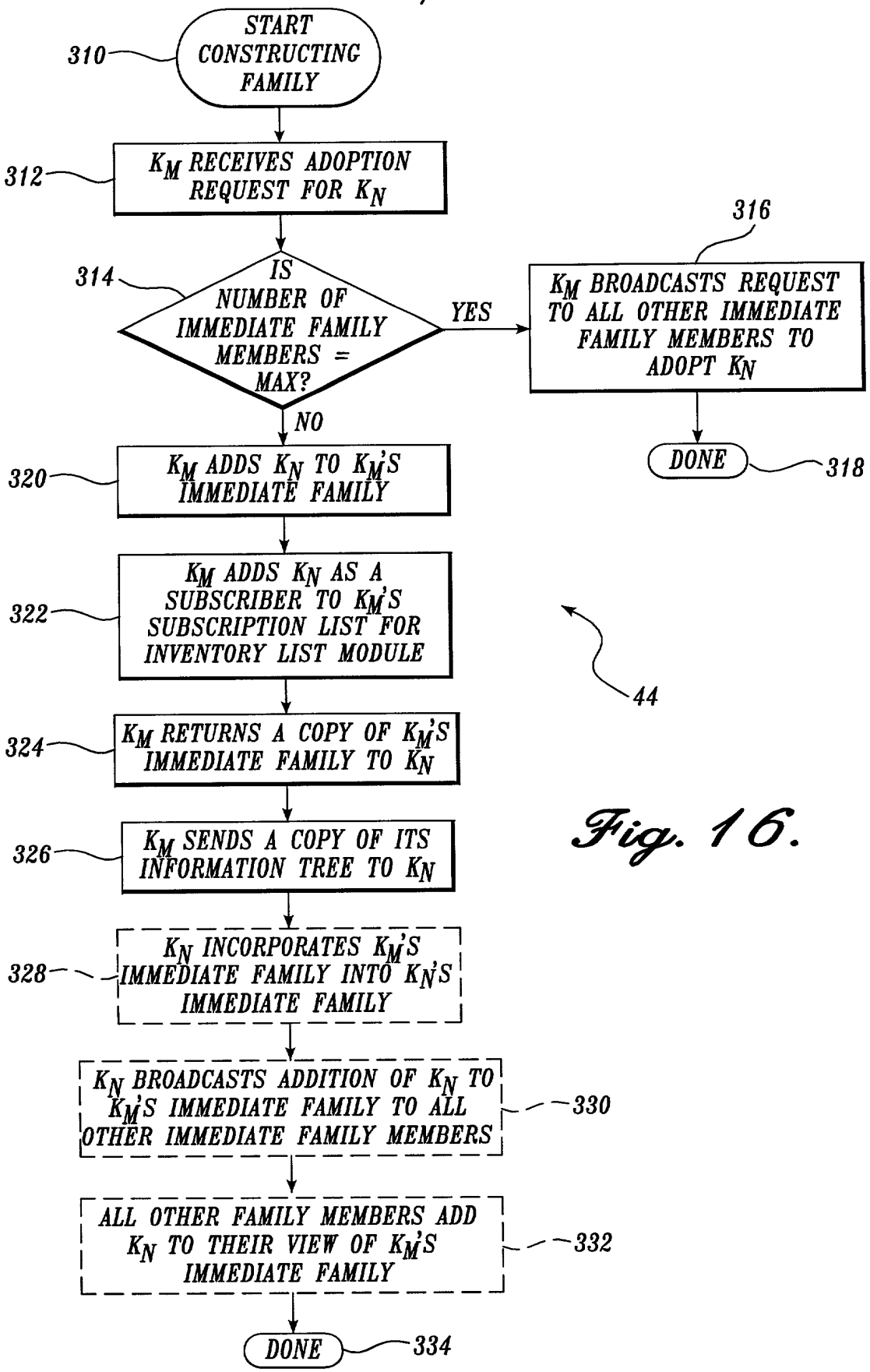
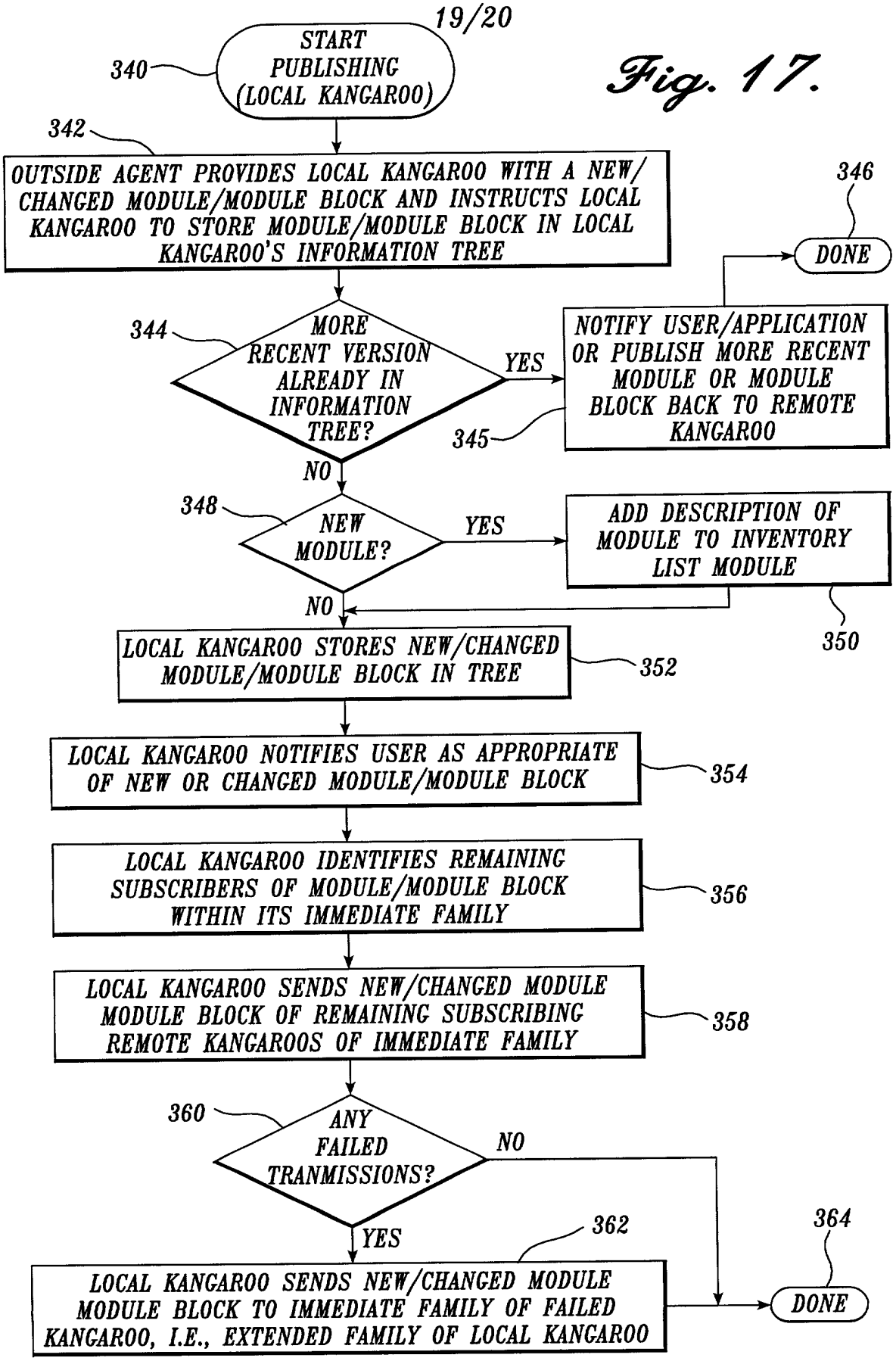

START CONSTRUCTING FAMILY
310
K_M RECEIVES ADOPTION REQUEST FOR K_N
312
IS NUMBER OF IMMEDIATE FAMILY MEMBERS = MAX?
314
YES
NO
316
K_M BROADCASTS REQUEST TO ALL OTHER IMMEDIATE FAMILY MEMBERS TO ADOPT K_N
DONE
318
K_M ADDS K_N TO K_M'S IMMEDIATE FAMILY
320
K_M ADDS K_N AS A SUBSCRIBER TO K_M'S SUBSCRIPTION LIST FOR INVENTORY LIST MODULE
322
44
K_M RETURNS A COPY OF K_M'S IMMEDIATE FAMILY TO K_N
324
K_M SENDS A COPY OF ITS INFORMATION TREE TO K_N
326
K_N INCORPORATES K_M'S IMMEDIATE FAMILY INTO K_N'S IMMEDIATE FAMILY
328
K_N BROADCASTS ADDITION OF K_N TO K_M'S IMMEDIATE FAMILY TO ALL OTHER IMMEDIATE FAMILY MEMBERS
330
ALL OTHER FAMILY MEMBERS ADD K_N TO THEIR VIEW OF K_M'S IMMEDIATE FAMILY
332
DONE
334

Fig. 16.

Fig. 17.


START PUBLISHING (LOCAL KANGAROO)
340
OUTSIDE AGENT PROVIDES LOCAL KANGAROO WITH A NEW/ CHANGED MODULE/MODULE BLOCK AND INSTRUCTS LOCAL KANGAROO TO STORE MODULE/MODULE BLOCK IN LOCAL KANGAROO'S INFORMATION TREE
342
MORE RECENT VERSION ALREADY IN INFORMATION TREE?
344
YES
NOTIFY USER/APPLICATION OR PUBLISH MORE RECENT MODULE OR MODULE BLOCK BACK TO REMOTE KANGAROO
345
DONE
346
NO
NEW MODULE?
348
YES
ADD DESCRIPTION OF MODULE TO INVENTORY LIST MODULE
350
NO
LOCAL KANGAROO STORES NEW/CHANGED MODULE/MODULE BLOCK IN TREE
352
LOCAL KANGAROO NOTIFIES USER AS APPROPRIATE OF NEW OR CHANGED MODULE/MODULE BLOCK
354
LOCAL KANGAROO IDENTIFIES REMAINING SUBSCRIBERS OF MODULE/MODULE BLOCK WITHIN ITS IMMEDIATE FAMILY
356
LOCAL KANGAROO SENDS NEW/CHANGED MODULE MODULE BLOCK OF REMAINING SUBSCRIBING REMOTE KANGAROOS OF IMMEDIATE FAMILY
358
ANY FAILED TRANMISSIONS?
360
NO
YES
LOCAL KANGAROO SENDS NEW/CHANGED MODULE MODULE BLOCK TO IMMEDIATE FAMILY OF FAILED KANGAROO, I.E., EXTENDED FAMILY OF LOCAL KANGAROO
362
DONE
364

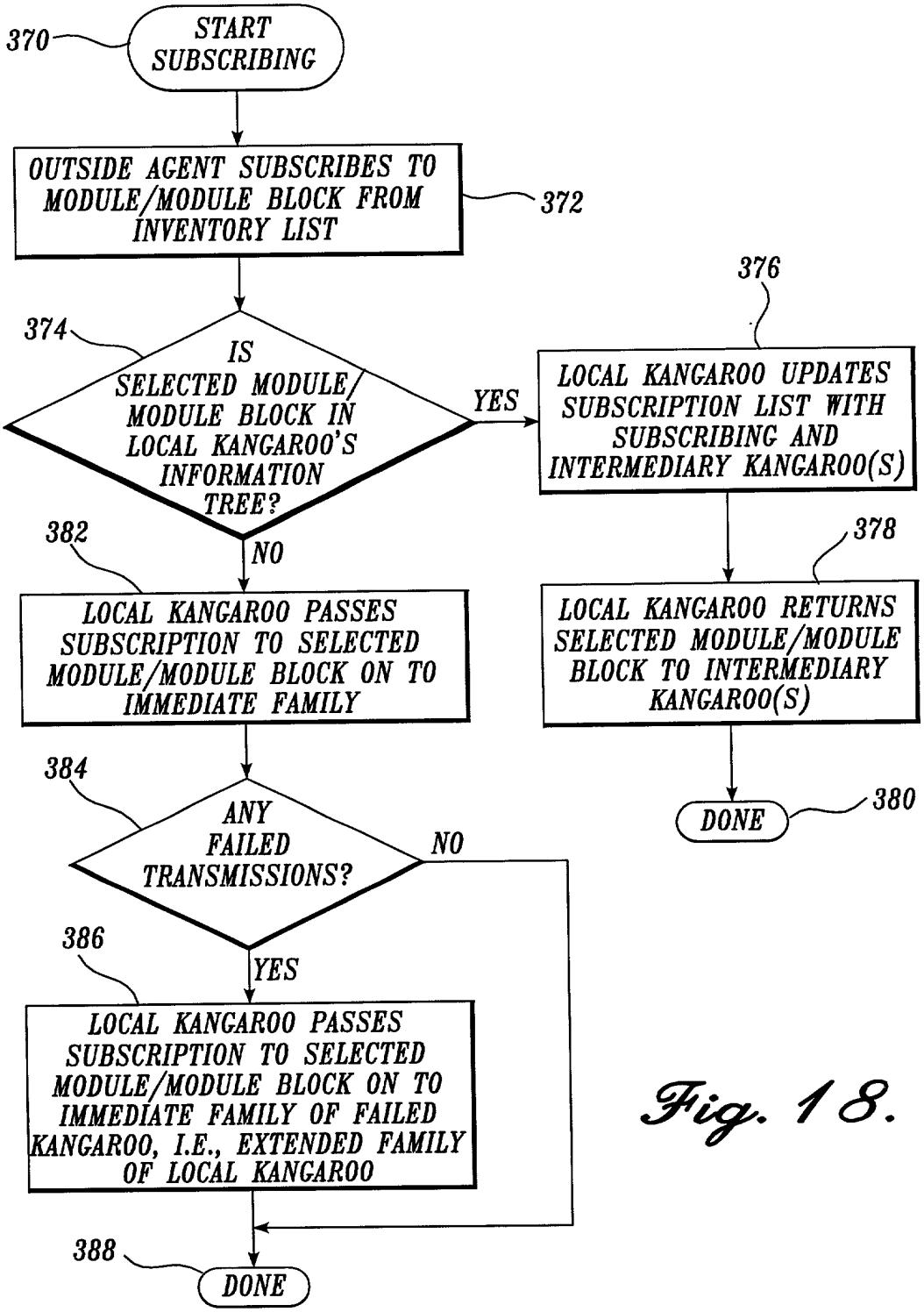

370
START SUBSCRIBING
OUTSIDE AGENT SUBSCRIBES TO MODULE/MODULE BLOCK FROM INVENTORY LIST
372
374
IS SELECTED MODULE/ MODULE BLOCK IN LOCAL KANGAROO'S INFORMATION TREE?
YES
NO
376
LOCAL KANGAROO UPDATES SUBSCRIPTION LIST WITH SUBSCRIBING AND INTERMEDIARY KANGAROO(S)
378
LOCAL KANGAROO RETURNS SELECTED MODULE/MODULE BLOCK TO INTERMEDIARY KANGAROO(S)
380
DONE
382
LOCAL KANGAROO PASSES SUBSCRIPTION TO SELECTED MODULE/MODULE BLOCK ON TO IMMEDIATE FAMILY
384
ANY FAILED TRANSMISSIONS?
NO
YES
386
LOCAL KANGAROO PASSES SUBSCRIPTION TO SELECTED MODULE/MODULE BLOCK ON TO IMMEDIATE FAMILY OF FAILED KANGAROO, I.E., EXTENDED FAMILY OF LOCAL KANGAROO
388
DONE

Fig. 18.